

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001068

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> C12N15/09, A23L1/236, A61K47/42, C07K14/415

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> C12N15/09, A23L1/236, A61K47/42, C07K14/415

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOTECHNOLOGY, ABSTRACT(DIALOG), EUROPAT(QUESTEL), BIOSIS(DIALOG),  
MEDLINE(STN), WPI(DIALOG), JSTPlus(JOIS), SwissProt/PIR/GeneSeq,

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-190899 A (Asahi Denka Kogyo Kabushiki Kaisha), 20 August, 1991 (20.08.91), Full text (Family: none)	1-20
Y	JP 6-189771 A (Asahi Denka Kogyo Kabushiki Kaisha), 12 July, 1994 (12.07.94), Full text & EP 502474 A2                      & WO 92/15612 A1 & AU 9211415 A                      & CA 2062174 A & CN 1064704 A                      & NZ 241807 A & TW 218026 A                      & US 5480795 A & DE 69227333 E                      & RU 2113440 C1	1-20

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
22 April, 2005 (22.04.05)Date of mailing of the international search report  
10 May, 2005 (10.05.05)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/001068

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ABE, K., et al., Molecular cloning of curculin, a novel taste-modifying protein with a sweet taste, Biochim.Biophys.Acta., (1992), Vol.1130, No.2, p.232-4.	1-20
Y	YAMASHITA, H., et al., Purification and complete amino acid sequence of a new type of sweet protein taste-modifying activity, curculin, J.Biol.Chem., (1990), Vol.265, No.26, p.15770-5.	1-20
Y	JP 10-215884 A (Meiji Seika Kaisha, Ltd.), 18 August, 1998 (18.08.98), Full text (Family: none)	1-20
A	<del>Satoru NIRESAWA, "Kanmi Tanpakushitsu oyobi Mikaku Shushoku Tanpakushitsu no Kezo to Kino", The Japanese journal of taste and smell research, (1999), Vol.6, No.3, pages 283 to 286</del>	1-20
P,X	SHIRASUKA, Y. et al., Neoculin as a new taste-modifying protein occurring in the fruit of Curculigo latifolia, Biosci.Biotechnol.Biochem., (2004 06), Vol.68, No.6, p.1403-7	1-20
P,X	SUZUKI, M. et al., Recombinant curculin heterodimer exhibits taste-modifying and sweet-tasting activities, FEBS Lett. 27 August, 2004 (27.08.04), Vol.573, Nos. 1 to 3, p.135-8.	1-20